Contents of Volume 85

(All rights reserved)

Williams CM The Diamond Jubilee of the Nutrition Society (Editorial). 1
Roche HM Olive oil, high-oleic acid sunflower oil and CHD (Invited commentary). 3
Tsuchita H, Suzuki T & Kuwata T The effect of casein phosphopeptides on calcium absorption from calcium-fortified milk in growing rats. 5
Matte JJ, Girard CL & Sève B Effects of long-term parenteral administration of vitamin B_6 on B_6 status and some aspects of the glucose and protein metabolism of early-weaned piglets. 11
Higgins S, Carroll YL, McCarthy SN, Corridan BM, Roche HM, Wallace JMW, O'Brien NM & Morrissey PA Susceptibility of LDL to oxidative modification in healthy volunteers supplemented with low doses of *n*-3 polyunsaturated fatty acids. 23
Giacco R, Brighenti F, Parillo M, Capuano M, Ciardullo AV, Rivieccio A, Rivellese AA & Riccardi G Characteristics of some wheat-based foods of the Italian diet in relation to their influence on postprandial glucose metabolism in patients with type 2 diabetes. 33
Oubiña P, Sánchez-Muniz FJ, Ródenas S & Cuesta C Eicosanoid production, thrombogenic ratio, and serum and LDL peroxides in normo- and hypercholesterolaemic post-menopausal women consuming two oleic acid-rich diets with different content of minor components. 41
Cikot RJLM, Steegers-Theunissen RPM, Thomas CMG, de Boo TM, Merkus HMWM & Steegers EAP Longitudinal vitamin and homocysteine levels in normal pregnancy. 49
Davidsson L, Dimitriou T, Walczyk T & Hurrell RF Iron absorption from experimental infant formulas based on pea (*Pisum sativum*)-protein isolate: the effect of phytic acid and ascorbic acid. 59
Yamauchi T, Umezaki M & Ohtsuka R Influence of urbanisation on physical activity and dietary changes in Huli-speaking population: a comparative study of village dwellers and migrants in urban settlements. 65
Speakman JR, Perez-Camargo G, McCappin T, Frankel T, Thomson P & Legrand-Defretin V Validation of the doubly-labelled water technique in the domestic dog (*Canis familiaris*). 75
Iossa S, Lionetti L, Mollica MP, Crescenzo R, Barletta A & Liverini G Effect of cold exposure on energy balance and liver respiratory capacity in post-weaning rats fed a high-fat diet. 89
Quiniou N, Noblet J, van Milgen J & Dubois S Modelling heat production and energy balance in group-housed growing pigs exposed to low or high ambient temperatures. 97
Rodrigues MLCF & Da Costa THM Association of the maternal experience and changes in adiposity measured by BMI, waist:hip ratio and percentage body fat in urban Brazilian women. 107
Scollan ND, Choi N-J, Kurt E, Fisher AV, Enser M & Wood JD Manipulating the fatty acid composition of muscle and adipose tissue in beef cattle. 115
Panter-Brick C, Lunn PG, Baker R & Todd A Elevated acute-phase protein in stunted Nepali children reporting low morbidity: different rural and urban profiles. 125
Trichopoulos D & Lagiou P Dietary patterns and mortality (Invited commentary). 133
Deurenberg P Universal cut-off BMI points for obesity are not appropriate (Invited commentary). 135
Ågren JJ, Tvrzicka E, Nenonen MT, Helve T & Hänninen O Divergent changes in serum sterols during a strict uncooked vegan diet in patients with rheumatoid arthritis (Short communication). 137
Relas H, Gylling H & Miettinen TA Acute effect of dietary stanyl ester dose on post-absorptive α-tocopherol, β-carotene, retinol and retinyl palmitate concentrations. 141
Jackson KG, Robertson MD, Fielding BA, Frayn KN & Williams CM Second meal effect: modified sham feeding does not provoke the release of stored triacylglycerol from a previous high-fat meal. 149
Van Dael P, Davidsson L, Muñoz-Box R, Fay LB & Barclay D Selenium absorption and retention from a selenite- or selenate-fortified milk-based formula in men measured by a stable-isotope technique. 157
Ramjiganesh T, Roy S, McIntyre JC & Luz Fernandez M The hypocholesterolaemic effects of sitostanol in the guinea pig are in part related to changes in hepatic lipids and lipoprotein composition. 165

Viña JR, Giménez A, Corbacho A, Puertes IR, Borrás E, García C & Barber T Blood sulfur-amino acid concentration reflects an impairment of liver transsulfuration pathway in patients with acute abdominal inflammatory processes. 173
Barkow B, Matte JJ, Böhme H & Flachowsky G Influence of folic acid supplements on the carry-over of folates from the sow to the piglet. 179
Miles EA, Wallace FA & Calder PC An olive oil-rich diet reduces scavenger receptor mRNA in murine macrophages. 185
Lewis RM, James LA, Zhang J, Byrne CD & Hales CN Effects of maternal iron restriction in the rat on hypoxia-induced gene expression and fetal metabolite levels. 193
Yoshioka M, Doucet E, Drapeau V, Dionne I & Tremblay A Combined effects of red pepper and caffeine consumption on 24 h energy balance in subjects given free access to foods. 203
Shiau S-Y & Hsieh J-F Quantifying the dietary potassium requirement of juvenile hybrid tilapia (*Oreochromis niloticus* × *O. aureus*). 213
Osler M, Heitmann BL, Gerdes LU, Jørgensen LM & Schroll M Dietary patterns and mortality in Danish men and women: a prospective observational study. 219
Olmedilla B, Granado F, Southon S, Wright AJA, Blanco I, Gil-Martinez E, van den Berg H, Corridan B, Roussel A-M, Chopra M & Thurnham DI Serum concentrations of carotenoids and vitamins A, E, and C in control subjects from five European countries. 227
Ko GTC, Tang J, Chan JCN, Sung R, Wu MMF, Wai HPS & Chen R Lower BMI cut-off value to define obesity in Hong Kong Chinese: an analysis based on body fat assessment by bioelectrical impedance. 239
Boucher BJ Parathyroid hormone and dietary calcium (Letter to the Editors). 243
Morinan A Introduction to the Blood–Brain Barrier Methodology, Biology and Pathology (Book review). 245
Garnsworthy PC Feeding Systems and Feed Evaluation Models (Book review). 245
Allan AK, Hawksworth GM, Woodhouse LR, Sutherland B, King JC & Beattie JH Lymphocyte metallothionein mRNA responds to marginal zinc intake in human volunteers (Erratum). 247
Pedersen JI More on *trans* fatty acids (Invited commentary). 249
Darlington LG & Stone TW Antioxidants and fatty acids in the amelioration of rheumatoid arthritis and related disorders (Review article). 251
Livesey G A perspective on food energy standards for nutrition labelling (Review article). 271
Haberkorn V, Heydel J-M, Mounie J, Artur Y & Goudonnet H Influence of vitamin A status on the regulation of uridine (5′-)diphosphate-glucuronosyltransferase (UGT) 1A1 and UGT1A6 expression by L-triiodothyronine. 289
Faulconnier Y, Bonnet M, Bocquier F, Leroux C & Chilliard Y Effects of photoperiod and feeding level on adipose tissue and muscle lipoprotein lipase activity and mRNA level in dry non-pregnant sheep. 299
Picherit C, Chanteranne B, Bennetau-Pelissero C, Davicco M-J, Lebecque P, Barlet J-P & Coxam V Dose-dependent bone-sparing effects of dietary isoflavones in the ovariectomised rat. 307
Seal CJ & Mathers JC Comparative gastrointestinal and plasma cholesterol responses of rats fed on cholesterol-free diets supplemented with guar gum and sodium alginate. 317
Wang Y, McAllister TA, Rode LM, Beauchemin KA, Morgavi DP, Nsereko VL, Iwaasa AD & Yang W Effects of an exogenous enzyme preparation on microbial protein synthesis, enzyme activity and attachment to feed in the Rumen Simulation Technique (Rusitec). 325
Samuelson G, Bratteby L-E, Mohsen R & Vessby B Dietary fat intake in healthy adolescents: inverse relationships between the estimated intake of saturated fatty acids and serum cholesterol. 333
Guerin S, Ramonet Y, LeCloarec J, Meunier-Salaün MC, Bourguet P & Malbert CH Changes in intragastric meal distribution are better predictors of gastric emptying rate in conscious pigs than are meal viscosity or dietary fibre concentration. 343
Westerterp-Plantenga MS Analysis of energy density of food in relation to energy intake regulation in human subjects. 351
Schulze MB, Hoffmann K, Kroke A & Boeing H Dietary patterns and their association with food and nutrient intake in the European Prospective Investigation into Cancer and Nutrition (EPIC)–Potsdam study. 363
Post GB, de Vente W, Kemper HCG & Twisk JWR Longitudinal trends in and tracking of energy and nutrient intake over 20 years in a Dutch cohort of men and women between 13 and 33 years of age: The Amsterdam growth and health longitudinal study. 375

Vermunt SHF, Beaufrère B, Riemersma RA, Sébédio J-L, Chardigny J-M, Mensink RP and the *Trans*LinE investigators Dietary *trans* α-linolenic acid from deodorised rapeseed oil and plasma lipids and lipoproteins in healthy men: the *Trans*LinE Study. 387
Fischer K, Colombani PC, Langhans W & Wenk C Cognitive performance and its relationship with postprandial metabolic changes after ingestion of different macronutrients in the morning. 393
Gallagher A The Glucose Revolution (Book review). 407
Wiseman J Egg nutrition and Biotechnology (Book review). 407
Ghyczy M & Boros M Electrophilic methyl groups present in the diet ameliorate pathological states induced by reductive and oxidative stress: a hypothesis (Review article). 409
Hill RJ & Davies PSW The validity of self-reported energy intake as determined using the doubly labelled water technique (Review article). 415
Kovary K, Louvain TS, Costa e Silva MC, Albano F, Pires BBM, Laranja GAT, Lage CLS & Felzenszwalb I Biochemical behaviour of norbixin during *in vitro* DNA damage induced by reactive oxygen species. 431
O'Leary K & Sheehy PJA Influence of folic acid-fortified foods on folate status in a folate depletion–repletion rat model. 441
Löhrke B, Saggau E, Schadereit R, Beyer M, Bellmann O, Kuhla S & Hagemeister H Activation of skeletal muscle protein breakdown following consumption of soyabean protein in pigs. 447
Record IR, Dreosti IE & McInerney JK Changes in plasma antioxidant status following consumption of diets high or low in fruit and vegetables or following dietary supplementation with an antioxidant mixture. 459
Szymczyk B, Pisulewski PM, Szczurek W & Hanczakowski P Effects of conjugated linoleic acid on growth performance, feed conversion efficiency, and subsequent carcass quality in broiler chickens. 465
Cross GB, Marley J, Miles H & Willson K Changes in nutrient intake during the menstrual cycle of overweight women with premenstrual syndrome. 475
Watzl B, Neudecker C, Hänsch GM, Rechkemmer G & Pool-Zobel BL Dietary wheat germ agglutinin modulates ovalbumin-induced immune responses in Brown Norway rats. 483
Deurenberg-Yap M, Schmidt G, van Staveren WA, Hautvast JGAJ & Deurenberg P Body fat measurement among Singaporean Chinese, Malays and Indians: a comparative study using a four-compartment model and different two-compartment models. 491
O'Neill ME, Carroll Y, Corridan B, Olmedilla B, Granado F, Blanco I, Van den Berg H, Hininger I, Rousell A-M, Chopra M, Southon S & Thurnham DI A European carotenoid database to assess carotenoid intakes and its use in a five-country comparative study. 499
Corish CA & Kennedy NP Undernutrition in hospitals (Letter to the Editors). 509
Williams C Energy-Yielding Macronutrients and Energy Metabolism in Sports Nutrition (Book review). 511
Kirk SFL The Diet Dilemma-Explained (Book review). 511
Southgate D Dr Elsie M. Widdowson (A personal appreciation). 513
Combs GF Jr Selenium in global food systems (Review article). 517
Reis MAB, Latorraca MQ, Carneiro EM, Boschero AC, Saad MJA, Velloso LA & Reyes FGR Magnesium deficiency improves glucose homeostasis in the rat: studies *in vivo* and in isolated islets *in vitro*. 549
Poppi DP, Ellis WC, Matis JH & Lascano CE Marker concentration patterns of labelled leaf and stem particles in the rumen of cattle grazing bermuda grass (*Cynodon dactylon*) analysed by reference to a raft model. 553
Savary IC, Hoskin SO, Dennison N & Lobley GE Lysine metabolism across the hindquarters of sheep; effect of intake on transfers from plasma and red blood cells. 565
Lambert MS, Avella MA, Berhane Y, Shervill E & Botham KM The differential hepatic uptake of chylomicron remnants of different fatty acid composition is not mediated by hepatic lipase. 575
Mendis S, Samarajeewa U & Thattil RO Coconut fat and serum lipoproteins: effects of partial replacement with unsaturated fats. 583
Hoskin SO, Gavet S, Milne E & Lobley GE Does glutamine act as a substrate for transamination reactions in the liver of fed and fasted sheep? 591
Pearson RA, Archibald RF & Muirhead RH The effect of forage quality and level of feeding on digestibility and gastrointestinal transit time of oat straw and alfalfa given to ponies and donkeys. 599
Macarulla MT, Medina C, De Diego MA, Chávarri M, Zulet MÁ, Martínez JA, Nöel-Suberville

C, Higueret P & Portillo MP Effects of the whole seed and a protein isolate of faba bean (*Vicia faba*) on the cholesterol metabolism of hypercholesterolaemic rats. 607
Ying C, Hsu J-T & Shieh S-C Growth inhibition of human endothelial cells by the phyto-oestrogen biochanin A, a metabolite of genistein. 615
Kroke A, Klipstein-Grobusch K, Hoffmann K, Terbeck I, Boeing H & Helander A Comparison of self-reported alcohol intake with the urinary excretion of 5-hydroxytryptophol:5-hydroxyindole-3-acetic acid, a biomarker of recent alcohol intake. 621
Goris AHC, Meijer EP & Westerterp KR Repeated measurement of habitual food intake increases under-reporting and induces selective under-reporting. 629
Meisel H, Bernard H, Fairweather-Tait S, FitzGerald RJ, Hartmann R, Lane CN, McDonagh D, Teucher B & Wal JM Nutraceutical and functional food ingredients for food and pharmaceutical applications (Letter to the Editors). 635
Wallace J Health and the Food Chain (Book review). 637
Acknowledgements to Referees 639
Bates CJ Intake and status in healthy Havana men, 2 years after the Cuban epidemic neuropathy (Invited commentary). 641
Chang C-K & Snook JT The cholesterolaemic effects of dietary fats in cholesteryl ester transfer protein transgenic mice (Short communication). 643
Panserat S, Fontagné S, Bergot P & Kaushik S Ontogenesis of hexokinase I and hexokinase IV (glucokinase) gene expressions in common carp (*Cyprinus carpio*) related to diet (Short communication). 649
Baggott JE, Tamura T & Baker H Re-evaluation of the metabolism of oral doses of racemic carbon-6 isomers of formyltetrahydrofolate in human subjects (Short communication). 653
Schöne F, Leiterer M, Hartung H, Jahreis G & Tischendorf F Rapeseed glucosinolates and iodine in sows affect the milk iodine concentration and the iodine status of piglets. 659
Folch N, Péronnet F, Massicotte D, Duclos M, Lavoie C & Hillaire-Marcel C Metabolic response to small and large ^{13}C-labelled pasta meals following rest or exercise in man. 671
Kapsokefalou M & Miller DD Iron loading and large doses of intravenous ascorbic acid promote lipid peroxidation in whole serum in guinea pigs. 681
Lobley GE, Bremner DM & Brown DS Response in hepatic removal of amino acids by the sheep to short-term infusions of varied amounts of an amino acid mixture into the mesenteric vein. 689
Takenaka S, Sugiyama S, Ebara S, Miyamoto E, Abe K, Tamura Y, Watanabe F, Tsuyama S & Nakano Y Feeding dried purple laver (nori) to vitamin B_{12}-deficient rats significantly improves vitamin B_{12} status. 699
Murphy JL, Robinson EN, Forrester TE, Wootton SA & Jackson AA Gastrointestinal handling and metabolic disposal of ^{13}C-labelled tripalmitin during rehabilitation from childhood malnutrition. 705
Doucet E, St-Pierre S, Alméras N, Després J-P, Bouchard C & Tremblay A Evidence for the existence of adaptive thermogenesis during weight loss. 715
Sánchez-Castillo CP, Franklin M, McNeill G, de Lourdes Solano M, Bonner S, López N, Davidson L & James WPT Are the proposed limits of energy intake:basal metabolic rate and dietary nitrogen:urinary nitrogen ratios suitable for validation of food intake? 725
Lumbers M, New SA, Gibson S & Murphy MC Nutritional status in elderly female hip fracture patients: comparison with an age-matched home living group attending day centres. 733
Arnaud J, Fleites-Mestre P, Chassagne M, Verdura T, Garcia Garcia I, Hernandez-Fernandex T, Gauter H, Favier A, Pérez-Cristià R, Barnouin J & Neuropathy epidemic group Vitamin B intake and status in healthy Havanan men, 2 years after the Cuban neuropathy epidemic. 741
Rissanen TH, Voutilainen S, Nyyssönen K, Lakka TA, Sivenius J, Salonen R, Kaplan GA & Salonen JT Low serum lycopene concentration is associated with an excess incidence of acute coronary events and stroke: the Kuopio Ischaemic Heart Disease Risk Factor Study. 749
Doherty CP, Sarker MAK, Shakur MS, Ling SC, Elton RA & Cutting WA Linear and knemometric growth in the early phase of rehabilitation from severe malnutrition. 755
Webb GP The Cambridge World History of Food (Book review). 761
Moloney A Forage Evaluation in Ruminant Nutrition (Book review). 762
Young JF, Dragsted LO, Daneshvar B, Lauridsen ST, Hansen M & Sandström B The effect of grape-skin extract on oxidative status (Erratum). 765
Storey D & Lee A Foreword S1

Consensus statements S5
Livesey G Tolerance of low-digestible carbohydrates: a general view. S7
Marteau P & Flourié B Tolerance to low-digestible carbohydrates: symptomatology and methods. S17
Scheppach W, Luehrs H & Menzel T Beneficial health effects of low-digestible carbohydrate consumption. S23
Zumbé A, Lee A & Storey D Polyols in confectionery: the route to sugar-free, reduced sugar and reduced calorie confectionery. S31
Murphy O Non-polyol low-digestible carbohydrates: food applications and functional benefits. S47
Howlett JF Low-digestible carbohydrates: the regulatory framework. S55
Cummings J, Lee A & Storey D Workshop: physiology and tolerance of LDCs. S59
Stewart D Workshop: consumption and consumer perceptions. S61
Barlow S Workshop: regulatory affairs. S65
Evans P & Halliwell B Micronutrients: oxidant/antioxidant status. S67
Bhaskaram P Immunobiology of mild micronutrient deficiencies. S75
Wellinghausen N Immunobiology of gestational zinc deficiency. S81
Seshadri S Prevalence of micronutrient deficiency particularly of iron, zinc and folic acid in pregnant women in South East Asia. S87
Tomkins A Nutrition and maternal morbidity and mortality. S93
Shah D & Sachdev HPS Effect of gestational zinc deficiency on pregnancy outcomes: summary of observation studies and zinc supplementation trials. S101
Refsum H Folate, vitamin B_{12} and homocysteine in relation to birth defects and pregnancy outcome. S109
Krishnaswamy K & Nair KM Importance of folate in human nutrition. S115
Black RE & Sazawal S Zinc and childhood infectious disease morbidity and mortality. S125
Bhandari N, Bahl R & Taneja S Effect of micronutrient supplementation on linear growth of children. S131
Bhatnagar S & Taneja S Zinc and cognitive development. S139
Agarwal KN Iron and the brain: neurotransmitter receptors and magnetic resonance spectroscopy. S147
Mahalanabis D & Bhan MK Micronutrients as adjunct therapy of acute illness in children: impact on the episode outcome and policy implications of current findings. S151
Gibson RS & Hotz C Dietary diversification/modification strategies to enhance micronutrient content and bioavailability of diets in developing countries. S159
Sivakumar B, Brahmam GNV, Nair KM, Ranganathan S, Rao MV, Vijayaraghavan K & Krishnaswamy K Prospects of fortification of salt with iron and iodine. S167
Briend A Highly nutrient-dense spreads: a new approach to delivering multiple micronutrients to high-risk groups. S175
Sandström B Micronutrient interactions: effects on absorption and bioavailability. S181
Nair KM Alternate strategies for improving iron nutrition: lessons from recent research. S187
Black RE Micronutrients in pregnancy. S193
Bhan MK, Sommerfelt H & Strand T Micronutrient deficiency in children. S199